LERNER
DAVID
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&
MENTLIK



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PATENTS, TRADEMARKS, COPYRIGHTS & UNFAIR COMPETITION

February 14, 2006

Commissioner For Patents
Office of Initial Patent Examination
Customer Service Center
P.O. Box 1450
Alexandria, VA 22313-1450

Re:

Our File: TRANS 3.3-052

Appln. No. 10/520,535

Filing Date: September 28, 2005

Group Art Unit: 3737

Dear Sir:

We are enclosing herewith copies of the filing receipt, executed Declaration and Transmittal Letter (second submission) for the above-identified patent application.

Please note that the correct *Filing Date* should read --<u>09</u>/28/2005--, not "<u>12</u>/28/2005." As proof of this change, please refer to the enclosed copy of Express Mail Label Number EV627259210US which indicates a "date in" of "9/28/05."

Further, enclosed is a copy of a Notice of Acceptance of Application Under 35 U.S.C. 371 and 37 CFR 1.495. Please change the "Date of Receipt of 35 U.S.C. 371(c)(1), (c)(2) and (c)(4) Requirements" and the "Date of Completion of All 35 U.S.C. 371 Requirements" to read --09/28/2005--, not "12/28/2005."

Kindly issue a corrected filing receipt for the above-identified application as soon as possible.

Sincerely yours,

LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP

ARNOLD H. KRUMHOLZ Reg. No. 25,428

AHK/ls Enclosures

PTO/SB/01 (03-01) Approved for use through 10/31/2002. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE sign (+) inside this box 😀 work Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Attorney Docket Number TRANS 3.3-052 **DECLARATION FOR UTILITY OR** DESIGN First Named Inventor Patrick David Lopath PATENT APPLICATION COMPLETE IF KNOWN (37 CFR 1.63) 10/520,535 Application Number X Declaration Declaration January 6, 2005 Filing Date Submitted Submitted after Initial N/A with Initial Filing (surcharge Group Art Unit (37 ČFR 1.16 (e)) Filing Not Yet Assigned Examiner Name required) As a below named inventor, I hereby declare that: My residence, mailing address, and citizenship are as stated below next to my name. I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: CARDIAC ABLATION USING MICROBUBBLES (Title of the Invention) the specification of which is attached hereto OR 07/03/2003 was filed on (MM/DD/YYYY) as United States Application Number or PCT International Application PCT/US2003/021140 and was amended on (MM/DD/YYYY) (if applicable). No. I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365 (a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed. Prior Foreign Certified Copy Attached? Priority Application Number(s) Foreign Filing Date (MM/DD/YYYY) Not Claimed Country

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

PTO/SB/01 (03-01)
Please type a plus sign (+) inside this box

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DECLARATION — Utility or Design Patent Application							
POWER OF ATTORNEY: As a named inve transact all business in the	entor, I hereby ar a Patent and Trac	ppoint the fo	ollowir	ng registered nnected there	I practitions ewith: Cus	er(s) to prosecute this application and to storner Number 000530	
	Customer Number 0			00530 or		R Correspondence address below	
Name	Name						
Address					,		
City			Stat	ite		ZIP	
			-				
Country	Telephone					Email	
I hereby declare that all statements made belief are believed to be true; and further t the like so made are punishable by fine or may jeopardize the validity of the applicati	that these state r imprisonment,	ements we t, or both,	ere m unde	nade with the er 18 U.S.C.	ne knowled	dge that willful false statements and	
NAME OF SOLE OR FIRST INVENTOR:				A peti	ition has be	een filed for this unsigned inventor	
Given Name P	Patrick David	t		Family Nan		Lopath	
inventor's Signature					Date	, \$85P7455	
Starnford	CT	Uni		States of erica		US //	
Mailing Address: 74 Horton Street #2				·		·	
Stamford .	CT State	ZIP	069	902	Cou	United States of America	
NAME OF SECOND INVENTOR:				A peti	ition has be	een filed for this unsigned inventor	
Given Name (first and middle [if any])				Family Name or Surname			
Inventor's Signature	 				Date	8	
Residence: City	State	Country	,		Cittle	zenship	
Mailing Address:					<del></del>		
City	State ZIP			· 	Country		
Additional inventors are being named on the supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.							

LD-537\



ART UNIT

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS PO. Box 1450 Alexandria, Viginia 22313-1450

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(c) DATE 12/28/2005 3737 365 **TRANS 3.3-052** 10/520,535

FIL FEE REC'D

12

**CONFIRMATION NO. 9246** 

**FILING RECEIPT** OC0000000178087421

530 LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK 600 SOUTH AVENUE WEST WESTFIELD, NJ 07090

FILING OR 371

Date Mailed: 01/10/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

ATTY.DOCKET NO

Applicant(s)

APPL NO.

Patrick David Lopath, Stamford, CT;

Assignment For Published Patent Application

ProRhythm, Inc., Setauket, NY

Power of Attorney: The patent practitioners associated with Customer Number 000530.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/US03/21140 07/03/2003 which claims benefit of 60/394,392 07/08/2002

Foreign Applications

Projected Publication Date: 04/20/2006

Non-Publication Request: No

Early Publication Request: No

\*\* SMALL ENTITY \*\*

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JAN 13 2006

RECEIVED

Title

Cardiac ablation using microbubbles

**Preliminary Class** 

600

## PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

# LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

#### **GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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1.53(d). This license is not retroactive.

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#### **NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



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U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY. DOCKET NO.

10/520,535

Patrick David Lopath

TRANS 3.3-052

INTERNATIONAL APPLICATION NO. PCT/US03/21140

I.A. FILING DATE

PRIORITY DATE

07/03/2003

07/08/2002

530 LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK 600 SOUTH AVENUE WEST WESTFIELD, NJ 07090

**CONFIRMATION NO. 9246** 371 ACCEPTANCE LETTER \*OC000000017808743\*

Date Mailed: 01/10/2006

#### NOTICE OF ACCEPTANCE OF APPLICATION UNDER 35 U.S.C 371 AND 37 CFR 1.495

The applicant is hereby advised that the United States Patent and Trademark Office in its capacity as a Designated / Elected Office (37 CFR 1.495), has determined that the above identified international application has met the requirements of 35 U.S.C. 371, and is ACCEPTED for national patentability examination in the United States Patent and Trademark Office.

The United States Application Number assigned to the application is shown above and the relevant dates are:

12/28/2005

12/28/2005

DATE OF RECEIPT OF 35 U.S.C. 371(c)(1), (c)(2) and DATE OF COMPLETION OF ALL 35 U.S.C. 371 (c)(4) REQUIREMENTS

REQUIREMENTS

A Filing Receipt (PTO-103X) will be issued for the present application in due course. THE DATE APPEARING ON THE FILING RECEIPT AS THE "FILING DATE" IS THE DATE ON WHICH THE LAST OF THE 35 U.S.C. 371 (c)(1), (c)(2) and (c)(4) REQUIREMENTS HAS BEEN RECEIVED IN THE OFFICE. THIS DATE IS SHOWN ABOVE. The filing date of the above identified application is the international filing date of the international application (Article 11(3) and 35 U.S.C. 363). Once the Filing Receipt has been received, send all correspondence to the Group Art Unit designated thereon.

The following items have been received:

- Indication of Small Entity Status
- Copy of the International Application filed on 01/06/2005
- Copy of the International Search Report filed on 01/06/2005
- Information Disclosure Statements filed on 01/06/2005
- Oath or Declaration filed on 12/28/2005
- Request for Immediate Examination filed on 01/06/2005
- U.S. Basic National Fees filed on 01/06/2005
- Priority Documents filed on 01/06/2005

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

JOHN L ANDERSON

Telephone: (703) 308-9140 EXT 211

PART 1 - ATTORNEY/APPLICANT COPY

· FORM PCT/DO/EO/903 (371 Acceptance Notice)

EXPRESS MAIL LABEL NO.: EV627259210US DATE: September 28, 2005

# TRANSMITTAL LETTER TO THE UNITED STATES

ATTORNEY'S DOCKET NUMBER TRANS 3.3-052

DESIGNATED/ELECTED OFFICE (DO/EO/US)	U.S. APPLICATION NO. (if known, see 37 CFR 1.5)					
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE	10/520,535 PRIORITY DATE CLAIMED					
PCT/US2003/021140 3 July 2003	8 July 2002					
TITLE OF INVENTION CARDIAC ABLATION USING MICROBUBBLES						
APPLICANT(S) FOR DO/EO/US						
Patrick David Lopath  Applicant herewith submits to the United States Designated/Elected Office (DO/EO/	O/LIS) the following items and other information:					
This is a FIRST submission of items concerning a submission under 35 U.						
2. X This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.						
This is an express request to begin national examination procedures (35 linclude items (5), (6), (9) and (21) indicated below.	U.S.C. 371(f)). The submission must					
4. The US has been elected (Article 31).						
5. A copy of the International Application as filed (35 U.S.C. 371 (c)(2))	5. A copy of the International Application as filed (35 U.S.C. 371 (c)(2))					
a. is attached hereto (required only if not communicated by the Internation	onal Bureau).					
b. has been communicated by the International Bureau.						
c. is not required, as the application was filed in the United States Received	ving Office (RO/US).					
6. An English language translation of the International Application as filed (35)	5 U.S.C. 371(c)(2)).					
a. is attached hereto.	a. is attached hereto.					
b. has been previously submitted under 35 U.S.C. 154(d)(4).	b. has been previously submitted under 35 U.S.C. 154(d)(4).					
7. Amendments to the claims of the International Application under PCT Artic	cle 19 (35 U.S.C. 371(c)(3))					
a. are attached hereto (required only if not communicated by the International Bureau).						
b. have been communicated by the International Bureau.						
c. have not been made; however, the time limit for making such amendments has NOT expired.						
d. have not been made and will not be made.						
8. An English language translation of the amendments to the claims under Po	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).					
9. x An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (Executed)						
An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).						
Items 11 to 20 below concern document(s) or information included:						
. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.						
12. An assignment document for recording. A separate cover sheet in compliant	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.					
13. A preliminary amendment.	A preliminary amendment.					
. An Application Data Sheet under 37 CFR 1.76.						
5. A substitute specification.						
16. A power of attorney and/or change of address letter.	A power of attorney and/or change of address letter.					
17. A computer-readable form of the sequence listing in accordance with PC						
18. A second copy of the published International Application under 35 U.S.C						
19. A second copy of the English language translation of the international ap	pplication under 35 U.S.C. 154(d)(4).					
	·					

PTO-1390 (Rev. 07-2005)
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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. PCT/US2003/021140			ATTORNEY'S DOCKET NUMBER TRANS 3.3-052					
20. x Other items or information: Copy of Notification Of Missing Requirements Under 35 U.S.C. 371 In The United States Designated/Elected Office (DO/EO/US), Return Receipt Postcard								
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21. Basi	c national fee	e (37 CFR 1.492	a))		\$300	\$		
22. Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report								
	prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)							
	23. Search fee (37 CFR 1.492(b))							
IPEA/US	indicates all cla	ims satisfy provision	al preliminary examination s of PCT Article 33(1)-(4)		\$0			
Internatio	nal Searching A	uthority	he international applicatio		\$100	\$		
previously	communicated	I to the US by the IB	er than the US and provide		\$400			
All other situation	TOTAL OF 21		<u></u>		\$500	\$ 0.0	00	
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sequer electro	nce listing in cor nic medium) (3:	npliance with 37 CF 7 CFR 1.492(j)).	R 1.821(c) or (e) or compo	uter	program listing in an			
Total Sheets	Extra Sheets		th additional 50 or fraction d up to a whole number)		RATE			
- 100 =	/50	=	x \$250.00			\$		
Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$ 130.0	00			
CLAIMS		NUMBER FILED NUMBER EXTRA RATE						
Total clair			-20 = x -3 = x					
Independent claims - 3 = x  MULTIPLE DEPENDENT CLAIM(S) (if applicable) +								
TOTAL OF ABOVE CALCULATIONS =					VE CALCULATIONS =	\$ 130.00		
X Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.				duced by 1/2.	65.00			
					SUBTOTAL =	\$ 65.0	0	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).								
TOTAL NATIONAL FEE =				TAL NATIONAL FEE =	\$ 65.00			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property \$								
TOTAL FEES ENCLOSED =				\$ 65.00				
			Amount to be refunded:	\$				
					·-··	Amount to be charged	\$	
		·						

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a. A check in the amount of \$ to cover the abo	ve fees is enclosed.				
b. X Please charge my Deposit Account No. 12-1095 in the amount of \$ 65.00 to cover the above fees. A duplicate copy of this sheet is enclosed.					
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No12-1095 A duplicate copy of this sheet is enclosed.					
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed an granted to restore the International Application to pending status.					
	SIGNATURE				
SEND ALL CORRESPONDENCE TO:					
	Marcus J. Millet				
CUSTOMER NUMBER: 000530	•				
	28,241 REGISTRATION NUMBER				
•					
	*				
•					